JPL PART # ST12192-	MFG.	GENERIC PART #	PACKAGE Style	DETAIL S CREENING TESTS	ELECTRICAL Characteristics & Group a tests	RADIATION (TID) LEVEL RAD(Si)
D5822ATR	SSD	SPD5822A/46	T0-46 <u>2</u> /	Table III	Table IV	100k <u>3</u> /

NOTES:

- 1/ This drawing, in conjunction with CS515581, imposes all requirements for procurement of these devices.
- 2/ Device physical dimensions shall conform to MIL-S-19500, Appendix F, Figure 9, outline number T-2A with the following exceptions:
 - a. Height Dimension (symbol A) shall be .065" min to .085" max.
 - b. Lead designation shall be: Lead number 1 anode Lead number 2 - anode

Lead number 3 - cathode

- 3/ Sufficient radiation tolerance to this TID level is guaranteed by design for this device. (See CS515581, Paragraph 4.7.7).
- 4. This standard takes precedence over documents referenced herein.

TABLE II. MANUFACTURERS MAXIMUM RATINGS

	NOTO ILLIO MANIMOM III	1111100
PARAMETER	RATING	UNITS
V _R	40	Vdc
l o	3	A
FM(REP)	20	A
FM (SURGE)	200	A
Røu-e1	15	·c/w
Tı, Tsta	-55 TO 15Ø	'C

RELEASED THRU SECTIO	N 356 DATA MANAGEMENT	DATE:		
REVISION: B APPR	OVED BY:	DATE:		
	APPROVED	SOURCE(S)		ONLY THE ITEM LISTED IN THE APPROVED SOURCE BLOCK AND IDENTIFIED BY VENDOR NAME ADDRESS, AND PART NUMBER HAS BEEN EVALUATED AND APPROVED BY THE JET PROPULSION LABORATORY ONTS DELEGATED ATTEMATE A SUBSTITUTE ITEM SHALL NOT BE USED WITHOUT PRIOR EVALUATION AND APPROVAL BY JPL OR ITS DELEGATED ATTEMATE
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Tocurement specification: CS515581 Corening specification: CPP-2873-GEN DIODE, SILICON RECTIFIER POWER SCHOTTKY, 3A, 4&V				JPL CAGENO.:23835
				ST 12192
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TABLE III. DETAIL SCREENING REQUIREMENTS

SCREEN (SEE MIL-S-19500, TABLE II)	TEST CONDITIONS/REQUIREMENTS
3. TEMPERATURE CYCLE	AS SPECIFIED.
9. INTERIM ELECTRICAL PARAMETERS	V _{ri,} In (Test conditions and limits of Table IV)
10. HIGH TEMPERATURE REVERSE BIAS (HTRB)	MIL-STD-75Ø, METHOD 1038, CONDITION A.
11. INTERIM ELECTRICAL AND DELTA PARAMETERS	SAME PARAMETERS AS STEP 9 ABOVE DELTA LIMITS: V:=±25 mV I:=±100 ua or ±20%, Whichever is greater
12. POWER BURN-IN	MIL-STD-75Ø, METHOD 1038, CONDITION B RECTIFYING TEST, 240 HOURS AT T _* =25°C I _* =MAXIMUM RATED PER TABLE II. V _* =80% of MAXIMUM RATED PER TABLE II. f=60 Hz
13. FINAL ELECTRICAL TESTS	
A. PARAMETERS	SUBGROUPS 2 AND 3 OF TABLE IV BELOW
B. DELTA LIMITS	SAME PARAMETERS AND LIMITS AS 11 ABOVE.

TABLE IV. GROUP A ELECTRICAL TESTS

MIL-STD-75Ø	TEST CONDITIONS	LIMITS		
MEINUD		MIN	MAX	UNITS
		40		Vdc
4021	I _R =1Ø uA			
4016	V₁=4Ø Vd c		100	uA
4011	I _F =1.0 Adc <u>1</u> /		0.60	Vdc
4011	I _F =3.Ø Adc <u>1</u> /		0.80	Vdc
4ø16	V:=48 Vd c, T:=188° C		1	mA
	4821 4816 4811 4811	METHOD 4821	METHOD MIN 48 4821	METHOD MIN MAX 48 21

NOTES: $\frac{1}{PULSE\ TEST}.\ Pulse\ width \leq 300\ usec;\ Duty\ Cycle \leq 2\%.$ $\frac{2}{I}.\ These\ tests\ not\ applicable\ unless\ specified.$

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ST 12192	REV. B	TITLE:	DIODE, SILICON RECTIFIER POWER SCHOTTKY, 3A, 4&V	ST	I	REV.	
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